

Coiled Wire Specification Data Sheet

1. Product Name

Southwestern Wire, Inc. layer wound or catch weight wire coils.

2. Manufacturer

Southwestern Wire, Inc.
3505 N Interstate Dr.
Norman, OK 73070
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3. Product Description

Coated wire that is coiled into specified bundle sizes. Standard wire sizes will be from 12 1/2 gauge to 6 gauge, other sizes can be ordered by customer specification. Coatings on the wire can be zinc coated (commercial, class I, class III, class IV, or class V), PVC coating over zinc coated wire, or aluminized coated wire.

BASIC USE

Southwestern Wire, Inc. coiled wire can be used for vineyard wire, electric fence wire, crimped tension wire & smooth tension wire.

PRODUCTION

Material is tracked from rod to wire for specification adherence and quality assurance. By drawing the wire from steel rod we control the gauge to insure the specifications of the customer are met. Once drawn, the wire travels through an acid bath. The acid cleans any impurities from the wire allowing a more secure bond between wire and coating. This provides a longer lasting product that continually resists peeling and corrosion while maintaining a new appearance year after year.

Strand wire galvanizing is a coating process that creates a smooth, uniform coating that protects the steel from rust and corrosion. This uniform layer of zinc or aluminum provides the necessary defense against the harsh elements of nature over a longer period of time.

COILED TENSION WIRE:

Electric Fence Wire



Smooth Tension Wire



Crimped Tension Wire



4. Technical Data

APPLICABLE STANDARDS

ASTMA 824

Standard Specification for Metallic-Coated Steel Marcellled Tension Wire for Use with Chain Link Fence

ASTMA 90/A90M

Standard Test Method for Weight (Mass) of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings

ASTMA 370

Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTMA 428

Standard Test Method for Weight of Coating on Aluminum-Coated Iron or Steel Articles

ASTM B 6

Specification for Zinc (Slab Zinc)

ASTMA 817

Standard Specification for Coated Wire for Steel Chain Link Fence Fabric

ASTMA 641

Standard Specification for Zinc-Coated Galvanized Carbon Steel Wire

Types of Coatings	Gauges
Class I - .30 oz per sq. ft.	6, 7, 9, 12.5
Class III - .80 oz per sq. ft.	6, 7, 9, 12.5
Class IV - 1.20 oz per sq. ft.	6, 7, 9, 12.5
Class V - 2.0 oz per sq. ft.	6, 7, 9, 12.5
Aluminized	6, 7, 9, 12.5
PVC - Extruded	Finish sizes 6, 8, 9



VINEYARD WIRE

PREMIUM HIGH TENSILE WIRE
Gauge Sizes - 10, 11, 12, 12.5, 13, & 14
High Tensile - 170,000 through 200,000 psi Extra High - 200,000 + psi
Galvanized - Class I and Class III
Packaged for Easy Installation 100 lb. "Layerwound" Coils - 5 Per bundle Stands - Continuous 1,000 lb. - 1,500 lb.

5. Installation

METHODS

Southwestern Wire recommends consulting a professional installer for proper method of installation

BUILDING CODES

Information of building codes and requirements can be obtained from city or state officials. It is recommended that the local or state codes are understood and followed where applicable when installing a system.

6. Availability & Cost

AVAILABILITY

We maintain substantial inventories of standard sizes of wire. Our central location in the heart of America means lower shipping costs and faster more dependable delivery. We have the capacity to produce 24/7.

COST

For a full line of products and costs contact a Southwestern Wire salesman.

7. Maintenance

Our coiled wire products are essentially maintenance free products, which will give many years of trouble free service. All installations should be inspected on a regular basis.

8. Technical Services

Questions on technical matters can be directed to Southwestern Wire by calling 1-800-348-9473 or e-mailing technical support through the Southwestern Wire web site. (www.southwesternwire.com)



WIRE

Mechanical Properties

WIRE (Gauge)	DIAMETER (inches)	BREAK STRENGTH (lbs.)			TENSILE STRENGTH (psi)		
		Soft	High Tensile	Extra High Tensile	Soft	High Tensile	Extra High Tensile
9	0.148	860	2925	3441	70,000	170,000	200,000
10	0.135	787	2433	2863	70,000	170,000	200,000
11	0.121	690	1935	2300	70,000	170,000	200,000
12	0.106	529	1500	1765	70,000	170,000	200,000
12.5	0.099	462	1309	1540	70,000	170,000	200,000
13	0.092	399	1130	1330	70,000	170,000	200,000
14	0.80	352	903	1036	70,000	170,000	200,000

Physical Characteristics

U.S WIRE GAUGE	DIAMETER		ZINC COATING (oz/sq.ft.)			
	in	mm	Com'l	Class I	Class III	Lineal ft/cwt.
9	0.148	3.77	0.12	0.40	0.80	1705'
10	0.135	3.43	0.11	0.30	0.80	2057'
11	0.121	3.06	0.10	0.30	0.80	2582'
12	0.106	2.68	0.10	0.30	0.80	3369'
12.5	0.099	2.51	0.10	0.30	0.80	3825'
13	0.092	2.32	0.09	0.30	0.70	4478'
14	0.080	2.03	0.09	0.25	0.65	5858'

1-800-348-WIRE(9473)

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Member

Visit us at www.southwesternwire.com